
PY240611EN-SD
PYLONTECH
Next Level
Residential Energy Solution
Force H3X
Hybrid Solution
On-Demand Versatility
One-Stop Solution & Effortless Installation
Trustworthy Safety Desgin
Extraordinary Performance
Intelligent Solutions
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PYLONTECH

From Heart to Your Home

On-Demand Versatility

Single Phase/ Three Phase

Wide power range
3.6 kW to **15** kW

Single group
10-35 kWh

Max. 6 groups
210 kWh

Suitable for both residential and small-scale C&I



One-Stop Solution & Effortless Installation

BMS+Inverter+EMS Highly intergrated

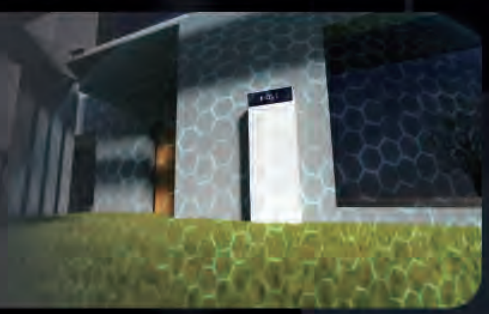
15 min Installation & commissioning

Automatic paralleling, easy set-up



Trustworthy Safety Desgin

- Vertical integrated manufacturing
- Reliable product safety design
- Ai-driven smart protection
- Various safety certifications, unit level **UL9540A**



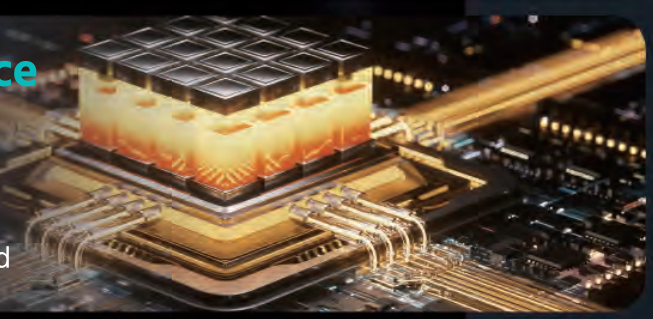
Extraordinary Performance

1 C Rate

97% Efficiency

8000+ Life cycles

100% three phase load unbalance Supported



Intelligent Solutions

- **Dynamic control:** Optimized energy usage strategy
- Fault diagnosis system
- Remote control of pv and heat pump



*Product specifications are subject to specific conditions. Please reach out to Pylontech's technical service for further details.

Force H3X Hybrid

Single Phase

HY-1P-EU

Module	FH3X3.6K-HY-1P EU-5/10/15/20	FH3X5K-HY-1P EU-5/10/15/20	FH3X6K-HY-1P EU-5/10/15/20	FH3X8K-HY-1P EU-5/10/15/20
Main System Data				
Battery Module	FH10050			
Number of Battery Modules	1/2/3/4			
Maximum PV Power (kW)	9.6	9.6	9.6	9.6
System Rated Capacity (kWh)	5.12/10.24/15.36/20.48			
Nominal Power (kW)	3.6	5	6	8
IP Rate	IP55			
Inverter Data				
DC Input (From PV) — Maximum Power (kW)	9.6	9.6	9.6	12.8
DC Input (From PV) — Maximum DC Input Voltage (Vdc)	600			
DC Input (From PV) — Start Up Voltage (Vdc)	80			
DC Input (From PV) — Number of MPPT	2	2	2	3
DC Input (From PV) — Number of PV Strings Per MPPT	1			
DC Input (From PV) — MPPT Voltage Range (Vdc)	80~550			
DC Input (From PV) — MPPT Full Load Voltage Range (Vdc)	190~520			
DC Input (From PV) — Maximum Current (A)	16			
DC Input (From PV) — Short Circuit Current Per MPPT (A)	25			
DC Input (From PV) — Surge Protection	Type II			
On-Grid — Nominal AC Voltage/Frequency (Vac)	230@50/60Hz			
On-Grid — Grid Voltage Range (Vac)	172.5~264.5			
On-Grid — Grid Connection	L/N/PE			
On-Grid — Nominal AC Power (kW)	3.6	5	6	8
On-Grid — Maximum Grid Input Power (kW)	5.7	7.5	9.6	12
Off-Grid — Rated Output Voltage (Vac)	230±1%			
Off-Grid — ON/Off-Grid Switching Time (ms)	≤10			
Off-Grid — Rated Off-Grid Power (kVA)	3.6	5	6	8
Off-Grid — Peak Off-Grid Power (60s)/Estimate (kVA)	4.32	6	7.2	9.6
Off-Grid — Maximum Parallel	6			
Efficiency — Maximum Efficiency	(400V PV) 97%			
Efficiency — European Efficiency	97%			
General Data				
System Battery Voltage (Vdc)	100~500			
Maximum Charge and Discharge Current (A)	40	50	50	50
System Dimensions (Width*Depth*Height, mm)	540*350*(565/735/905/1075)			
System Weight (kg)	69/108/147/186			
System Installation Method	Floor Installation (Wall-Mounted Optional for 5/10/15 Series)			
System Operating Temperature Range (°C)	-10~55			
System Working Humidity Range	0~95%			
System Salt Spray Level	C5M			
System Working Altitude (m)	≤3000			
Common Noise Level (@ 1 meter *In Nominal Condition, dB)	<29			
Cooling	Air Cooling			
Communication Portal	WIFI/WLAN/Bluetooth			
EPO	Installed			
AFCI	2.0@IEC 63027			
Battery Data				
Battery Module	FH10050			
Battery Module Capacity (kWh)	5.12			
Depth of Discharge	95%			
Charge/Discharge — Standard (A)	10			
Charge/Discharge — Normal (A)	50			
Charge/Discharge — MAX (A)	55@15min			
Cycle Life (@25°C)	>8000			
Muti-Group	Max.6 Systems in Parrallel			

Standard Compliance

UN38.3/IEC61000-6/VDE-AR-E-2510-50 2017-05/IEC62619: 2022/IEC60730-1/ISO13849/IEC62477-1: 2022/EN 62477-1: 2012+A12: 2021/IEC62109-1: 2010/IEC62109-2: 2011

VDE-AR-N-4105: 2018/DIN VDE V 0124-100: 2020/EN50549-10/EN50549-1/PPDS Annex: 2022+EN50549-10/C10/11+EN50549-10/EIFS+EN50549-10/CEI0-21/RD1699 RD661 RD413/UNE 217002: 2020/NTS Version 2.1: 2021/UNE 217001: 2021/AS 4777. 2/AS60947. 3/G98/G99/TOR

Force H3X Hybrid

Three Phase

HY-3P-EU

Module

		FH3X8K-HY-3P EU-10/15/20/25/30/35	FH3X10K-HY-3P EU-10/15/20/25/30/35	FH3X12K-HY-3P EU-10/15/20/25/30/35	FH3X15K-HY-3P EU-10/15/20/25/30/35
Main System Data					
Battery Module			FH10050		
Number of Battery Modules			2/3/4/5/6/7		
Maximum PV Power (kW)			24		
System Rated Capacity (kWh)			10.24/15.36/20.48/25.6/30.72/35.84		
Nominal Power (kW)		8	10	12	15
IP Rate			IP55		
Inverter Data					
DC Input (From PV)	Maximum Power (kW)		24		
	Maximum DC Input Voltage (Vdc)		1000		
	Start Up Voltage (Vdc)		200		
	Number of MPPT		3		
	Number of PV Strings Per MPPT		1		
	MPPT Voltage Range (Vdc)		200~850		
	MPPT Full Load Voltage Range (Vdc)		280~850		
	Maximum Current (A)		20		
	Short Circuit Current Per MPPT (A)		30		
	Surge Protection		Type II		
On-Grid	Nominal AC Voltage/Frequency (Vac)		400@50/60Hz		
	Grid Voltage Range (Vac)		320~480		
	Grid Connection		3W/N/PE		
	Nominal AC Power (kW)	8	10	12	15
	Maximum Grid Input Power (kW)	12	15	18	22.5
Off-Grid	Rated Output Voltage (Vac)		400		
	ON/Off-Grid Switching Time (ms)		≤10		
	Rated Off-Grid Power (kVA)	8	10	12	15
	Peak Off-Grid Power (60s)/Estimate (kVA)	9.6	12	14.4	18
	Maximum Parallel		6		
Efficiency	Maximum Efficiency		(600V PV) 97%		
	European Efficiency		97%		
General Data					
System Battery Voltage (Vdc)			120~850		
Maximum Charge and Discharge Current (A)		40	50	50	50
System Dimensions (Width*Depth*Height, mm)			540*350*(780/950/1120/1290/1460/1630)		
System Weight (kg)			118/157/196/235/274/313		
System Installation Method			Floor Installation (Wall-Mounted Optional for 5/10/15 Series)		
System Operating Temperature Range (°C)			-10~55		
System Working Humidity Range			0~95%		
System Salt Spray Level			C5M		
System Working Altitude (m)			≤3000		
Common Noise Level (@ 1 meter *In Nominal Condition, dB)			<29		
Cooling			Air Cooling		
Communication Portal			WIFI/WLAN/Bluetooth		
EPO			Installed		
AFCI			2.0@IEC 63027		
Battery Data					
Battery Module			FH10050		
Battery Module Capacity (kWh)			5.12		
Depth of Discharge			95%		
Charge/ Discharge	Standard (A)		10		
	Normal (A)		50		
	MAX (A)		55@15min		
Cycle Life (@25°C)			>8000		
Muti-Group			Max.6 Systems in Parrallel		

Standard Compliance

UN38.3/IEC61000-6/VDE-AR-E-2510-50 2017-05/IEC62619: 2022/IEC60730-1/ISO13849/IEC62477-1: 2022/EN 62477-1: 2012+A12: 2021/IEC62109-1: 2010/IEC62109-2: 2011

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